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AUSTRALIA			2675		
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		09/575,129	LAPSTUN ET AL.			
		Examiner	Art Unit			
	<u>-</u>	Leland R. Jorgensen	2675			
Period fe	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the o	orrespondence address			
THE - External after aft	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. & 133)			
Status						
1)⊠	Responsive to communication(s) filed on 29 M	May 2005.				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	s action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1 - 27, 29 - 66, 68, 69, 71 - 167, 16</u> 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1 - 27, 29 - 66, 68, 69, 71 - 167, 16</u> Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	iwn from consideration. 9 – 172, <i>and 177 - 180</i> is/are reje				
Applicat	on Papers					
9)[The specification is objected to by the Examine	er.				
10)[0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Extended in the correct to be supported to be					
Priority ι	ınder 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea see the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	• •	·				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary	(PTO-413)			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 29 May 2005 has been entered.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1 10, 34 36, 38 46, 49 52, 5, 65, 66, 68, 69, 75 77, 82 91, 114, 119 121, 123- 131, 134 140, 150 154, 158 162, 167, and 177 180 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman, USPN 6,330,976 B1 in view of Berson et al; USPN 6,039,257.

Claims 1, 3, 4, 6, 82, 84 - 86, 88, and 89. Dymetman teaches a method and system of enabling user interaction with computer software running in a computer system. An interface surface (hardcopy document 2) contains information relating to the computer software and having disposed therein or thereon coded data indicative of an identity of the interface surface (first set of markings 208 that uniquely identifies the page) and a plurality of reference points of the interface surface (second set of markings 202 that identifies position). Dymetman, col. 8,

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lines 45 - 67; col. 12, lines 29 - 46; and figures 1 - 3. The coded data is printed onto the surface is substantially invisible to an unaided human eye. Dymetman, col. 11, line 46 - col. 12, line 28; col. 12, lines 59 - 67, and figure 4.

A sensing device (pointer 502) senses at least some of the coded data when the sensing device is placed in an operative position relative to the interface surface. Dymetman, col. 8, lines 45-67; col. 15, lines 29-44; and figures 1, 2, & 8. The sensor uses at least some of the decoded coded data to generate indicating data indicative of the identity of the interface surface (first set of markings 208 that uniquely identities the page); and at least one of a position (second set of markings 202 that identifies position) and a movement (col. 35, lines 12-19) of the sensing device relative to the interface surface. Dymetman, col. 9, lines 17-23; col. 12, lines 29-46; and figures 1-3.

The method including the steps of, in the computer system: (a) receiving the indicating data from the sensing device; (b) using the indicating data to identify at least one interactive element relating to the computer software; and (c) operating the computer software in accordance with instructions associated with the at least one interactive element. Dymetman, col. 10, lines 11 - 67; col. 18, lines 39 - 55; col. 24, lines 1 - 12; and figure 13.

Dymetman does not specifically teach that the invisible coded data is printed onto the surface by means of a printer which also prints the visible information.

Berson teaches a printer [52] that prints both visible information [indicia 11] and invisible coded data [bar code 31]. Benson, col. 2, lines 30 - 37; col. 3, lines 34, 48 - 62; col. 4, line 44; col. 5, lines 6 - 10, 43 - 46, 55; and figures 1 - 3.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the printer that can print both visible information and invisible coded data as taught by Berson with the method and system as taught by Dymetman to provide a single printer for both printing jobs.

Claims 2, 5, 83, and 87. Dymetman teaches that the interactive element is associated with a zone (zone or cell 202) of the interface surface, and step (b) includes using at least one of the position (second set of markings 202 that identifies position) and the movement of the sensing device to identify the zone and thereby the interactive element. Dymetman, col. 12, lines 29 - 46; and figure 3.

Claims 7-10, 90 and 91. Dymetman teaches a hyperlink element relating to the computer software and a method including the step of effecting, in the computer system, an operation associated with the hyperlink element. Dymetman, col. 5, lines 39-44.

Claims 34 and 119. Dymetman teaches that each tag is indicative of the identity (page identifier (pid) or sticker identifier (pid')) of the region and the position (location code (loc or loc')) of the tag within the region. Dymetman, col. 9, lines 16 - 22.

Claims 35 and 120. Dymetman teaches that each of the tags includes first identity data defining a relative position (location code (loc or 1oc')) of that tag; and second identity data identifying the surface [page identifier (pid) or sticker identifier (pid')].

Claims 36 and 121. It is inherent that the surfaces described by Dymetman may be defined by a substrate.

Claims 38 - 43, 73 - 77, 123 - 128, and 158 - 162. Dymetman show these patterns. Dymetman, figures 3 and 58 - 10.

Claims 44 and 129. Dymetman teaches that each of the each of the tags (zone or cell 202) includes at least one conmen feature (orientation marker 206) in addition to the second identity data (first set of markings 208 that identifies the page). (The first identity data corresponds to the second set of markings 202 that identifies the position on the page.)

Dymetman, col. 12, lines 30 - 46; and figure 3.

Claims 45 and 130. Dymetman teaches the orientation marker 206 that is configured to assist finding and/or recognition of the tags by associated tag reading apparatus. Dymetman, col. 12, lines 30 - 46; and figure 3.

Claims 46 and 131. Dymetman shows that each cell (zone or cell 202) has a orientation marker, thus incorporating redundancy of information. Dymetman, col. 12, lines 30 - 46; and figure 3.

Claims 49 and 134. Dymetman teaches that each of the tags [zone or cell 202] includes at least one orientation feature [orientation marker 206] for enabling a rotational orientation of the tag being read to be ascertained. Dymetman, col. 12, lines 30 - 46; and figure 3.

Claims 50 and 135. Dymetman shows that each cell (zone or cell 202) has a orientation marker, thus incorporating redundancy of information. Dymetman, col. 12, lines 30 - 46; and figure 3.

Claims 51 and 136. Dymetman shows a pattern in figure 3 where the orientation features are rotationally asymmetric.

Claims 52 and 137. Dymetman shows identifiers that are skewed along a major axis.

Dymetman, figure 5B. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the same skewing for the orientation feature.

Claims 55 and 140. Dymetman teaches that each tag (zone or cell 202) includes a plurality of tag elements, the first (second set of markings 202 that identifies the position on the page) and second identity data (first set of markings 208 that identifies the page) each being defined by a plurality of the elements. Dymetman, col. 12, lines 30 – 46; and figure 3.

Claims 65 and 150. Dymetman shows that each cell (zone or cell 202) has first identify data (second set of markings 202 that identifies the position on the page), thus incorporating redundancy of information. Dymetman, col. 12, lines 30 - 46; and figure 3.

Claims 66 and 151. Dymetman shows that each cell (zone or cell 202) has second identify data (first set of markings 208 that identifies the page), thus incorporating redundancy of information. Dymetman, col. 12, lines 30 - 46; and figure 3.

Claim 152. It is inherent to Dymetman that the tags are printed out onto the surface by means of a printer.

Claims 68 and 153. Dymetman and Berson teach that printer is an ink printer. Dymetman, col. 1 l,lines 63 - 65; Berson, col. 3, lines 48 - 62.

Claims 69 and 154. Dymetman and Berson teaches that the tags are printed using ink that is absorbent or reflective in the ultraviolet spectrum. Dymetman, col. 11, lines 52 - 62; Berson, col. 3, lines 48 - 62.

Claims 114 and 167. Dymetman and Berson teach that the coded data is printed onto the surface to be substantially invisible to an unaided human eye. Dymetman, col. 11, line 46 - col. 12, line 28; col. 12, lines 59 - 67; and figure 4; Berson, col. 3, lines 48 - 62.

Claims 177 – 180. Dymetman teaches that at least some of the visible information represents the interactive element. The interactive element is associated with a region of the

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interface surface such that when the sensing device is placed in an operative position relative to the interactive element, the sensing device senses coded data provided within the region and generates the indicating data using the sensed coded data. The method includes, in the computer system, using the indicative data to identify the region and thereby the interactive element.

Dymetman, col. 10, lines 11 - 67; col. 18, lines 39 - 55; col. 24, lines 1 - 12; and figure 13.

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4. Claims 11 - 13, 71, 72, 78, 92 - 96, 155 - 157, and 163 are rejected under 35
U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims
1, 4, 67, or 70 above, and further in view of Lesnick et al; USPN 4,760,606.

Claims 11 - 13 and 94 - 96. Dymetman teaches filling in multi-choice paper forms. Dymetman, col. 31, line 26.

Although inherent to such processing data from multi-choice paper forms, Dymetman does not specifically teach that the method includes the steps of identifying, in the computer system, that the user has entered a hand-drawn mark by means of the sensing device and effecting, in the computer system, an operation associated with the checkbox field.

Lesnick teaches identifying, in a computer system, that the user has entered a hand-drawn mark by means of the sensing device and effecting, in the computer system, an operation associated with the checkbox field. Lesnick, col. 5, lines 1 - 5; and figure 6.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the identifying system of as taught by Lesnick with the method and system as taught by Dymetman to allow the user to enter marks identifying the document and desired options for the document. Lesnick invites such combination by teaching.

Accordingly, it is a principal object of this invention to provide an efficient means of digitizing multiple specimens (or documents).

Also, it is an object of this invention to greatly reduce the need for user dependency, and thus increase automation, during the digitizing process.

Further, it is an object of this invention is to efficiently classify and file the digitized documents.

Lesnick, col. 1, lines 33 - 40.

Claims 70 and 155. Lesnick show that the printer also prints additional information onto the surface. Lesnick, figure 6.

Claims 71, 72, 156, and 157. Dymetman teach that the information is printed onto the surface using colored inks, including cyan, magenta, and yellow inks. CMY is an acronym for cyan, magenta, and yellow.

Claims 78 and 163. Lesnick shows additional non-tag information disposed on the surface. Lesnick, figure 6.

Claims 92 and 93. Lesnick teaches that data indicative of a name and/or value of at least one field related to the computer software and of a selected object. Lesnick, figure 6.

5. Claims 14 - 17 and 97 - 100 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Tran, USPN 6,157,935.

Claims 14 - 17 and 97 - 100. Dymetman teaches entering and decoding handwritten text data. Dymetman, col. 30, line 65 - col. 31, line 40.

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Although inherent to the method of entering and decoding handwritten text data,

Dymetman does not specifically teach identifying, in the computer system, that the user has
entered handwritten text data by means of the sensing device and effecting, in the computer
system, an operation associated with the text field.

Tran teaches that the interactive element is a text field relating to the computer software and identifying and converting, in the computer system, that the user has entered handwritten text data by means of the sensing device and effecting, in the computer system, an operation associated with the text field. Tran, col. 2, lines 53 – 56; and col. 11, line 3 - col. 12, line 14.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the handwritten text data system and method as taught by Tran with the method and system as taught by Dymetman to produce such system and method that would utilize easily entered handwritten notations on a hardcopy document. Tran invites such combination. Tran, col. 1, line 60 - col. 2, line 50.

- 6. Claims 18 22 and 101 105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Obata et a1; USPN 6,002,783.
- Claims 18 22 and 101 105. Dymetman teaches that the interactive element may define a signature field. Dymetman, col. 17, lines 29 30.

Dymetman does not specifically teach that the interactive element is a signature field relating to the computer software, and that the method includes identifying, in the computer system, that the user has entered a handwritten signature by means of the sensing device and

effecting, in the computer system, an operation associated with the signature field.

Obata teaches teach that the interactive element is a signature field relating to the computer software, and that the method includes identifying, in the computer system, that the user has entered a handwritten signature by means of the sensing device and effecting, in the computer system, an operation associated with the signature field. Obata, col. 5, lines 16 - 49; and figure 3.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the signature field of Obata with the method and system as taught by Dymetman to produce a system and method to inexpensively verify the user. Obata invites such combination by teaching,

There have been various object identification systems such as an image checking system using images of fingerprints, a voice checking system using voices such as voiceprints. Among them, a scripture checking system using handwritten signatures of card carriers is considered useful because of its simple hardware structure, low manufacturing cost and less handling difficulty.

Such signature checking systems are used in various fields. ...

Obata, col. 1, lines 23 - 34.

7. Claims 23 - 26, 29, 32, 106 - 108, 112, 115, and 116 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Cass, USPN 5,692,073.

Claims 23, 25, 106, and 108. Dymetman teaches that the interactive element may produce a drawing field. Dymetman, col. 17, lines 2 – 35; and col. 30, line 65 - col. 31, line 40.

Although inherent to the method of entering and decoding a drawing field, Dymetman does not specifically teach identifying, in the computer system, that the user has entered a hand-drawn picture by means of the sensing device and effecting, in the computer system, an operation associated with the drawing field.

Cass teaches a drawing field related to the computer software and identifying, in the computer system, that the user has entered a hand-drawn picture by means of the sensing device and effecting, in the computer system, an operation associated with the drawing field. Cass, col. 14, lines 8 – 24; col. 14, line 53 - col. 15, line 32; and figures 13 - 19.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the on demand printing ms taught by Cass with the method and system as taught by Bennett and Lesnick to produce a system and method to more easily input computer data. Cass invites such combination by teaching,

A paper-based user interface can serve as a complement or substitute for the more conventional keyboard-mouse-display type of user interface mentioned earlier. A paper-based user interface is particularly appealing when the user interacts with a computer network directly through a multifunction device, without recourse to a personal computer or workstation. In this situation, the user can initiate a number of functions, such ms document copying, facsimile, electronic mail, document storage, and search using a simple paper form as an interface. The multifunction device "reads" what is on the form and responds accordingly, possibly with help from the network.

Cass, col. 2, lines 17 - 28.

Claims 24 and 107. Dymetman teaches activating, in the computer system, a hyperlink. Dymetman, col. 5, lines 39 - 44.

Claims 26 and 112. Cass teaches printing the interface surface on demand. Cass, col. 17, lines 4 - 36.

Claims 29 and 115. Cass teaches retaining a retrievable record of each interface surface printed, the interface surface being retrievable using the identity contained in its associated coded data. Cass, col. 10, line 12 - col. 11, line 5; col. 11, lines 15 - 33; and col. 17, lines 37 - 49.

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Claims 32 and 116. Cass teaches providing sufficient coded data relating to the computer software in the interface surface to eliminate the need for a separate display device. Cass, col. 2, lines 17 - 28; col. 7, lines 28 - 34.

8. Claims 27 and 113 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman, Berson, and Cass as applied to claims 26 or 1 12 above, and further in view of LaMarca et a1; USPN 6,279,013 B1.

Claims 27 and 113. Although it may be inherent to the system as taught, Dymetman does not specifically teach substantially simultaneously printing the interface surface and the coded data onto a substrate.

LaMarca teaches substantially simultaneously printing the interface surface and the coded data onto a substrate. LaMarca, col. 5, lines 4 - 12 and 34 - 40; and figures 1 and 2. LaMarca also teaches a printer 40 for printing a document 10 and 42. LaMarca, figures 1 and 2. LaMarca teaches a user interactive element (tokens 18, 20, 22, 24, 60, 62, 64, and 66) with coded data (data glyphs) indicative of an identity of the document and an identity of the at least one user interactive element. LaMarca, col. 3, lines 59 - 64; col. 5, lines 1 - 5; col. 6, lines 1 - 8; and figures 1 - 4. LaMarca teaches a sensing device (smart wand 70) for interacting with the at least one user interactive element and transmitting request data to the computer system to facilitate the further directory information being sent from the computer system to the printer for printing in a

further document, the request data being indicative of the identity of the document and an identity of the at least one user interactive element. LaMarca, col. 5, lines 16 - 26; col. 6, lines 24 - 52; and figure 5.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine simultaneous printing of the directory entries and coded data as taught by LaMarca with the method and system for navigating a directory as taught by Cass. LaMarca invites such combination by teaching,

The present invention contemplates a new and improved system which overcomes the prolix disadvantages of mass media print communication to effectively combine the advantageous features of the two relevant technologies. That is, the customized newspaper which can now be read on an electronic display, is combined with the affordances and conveniences of a printed paper interface, for a resulting interactive newspaper, customized to a subscriberidentified profile.

LaMarca, col. 1, line 65 - col. 2, line 6. See also LaMarca, col. 2, line 64 - col. 3, line 17.

9. Claims 30 and 117 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Microsoft Press Computer Dictionary 3rd Ed (41997).

Claims 30 and 117. Dymetman does not specifically teach multicast or PointCast communications protocols.

Microsoft Press Computer Dictionary teaches multicast and PointCast communications protocols. Microsoft Press Computer Dictionary, pp. 300, 318, and 371.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine such protocols as taught by the Microsoft Press Computer Dictionary with the

method and system as taught by Dymetman to provide a push technology "where the server automatically uploads data without a specific command from the client." Dictionary, p. 371.

10. Claims 31, 110, and 111 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Junod et al; USPN 5,854,621.

Claims 31, 110, and 111. Dymetman does not teach that the sensing device containing an identification means that imparts a unique identity to the sensing device and identifies it ms belonging to a particular user, wherein the method includes the step of monitoring, in the computer system, said identity.

Junod teaches that the sensing device containing an identification means that imparts a unique identity to the sensing device and identifies it as belonging to a particular user, wherein the method includes the step of monitoring, in the computer system, said identity. Junod, col. 5, lines 34 - 53; and figure 4.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the sensing device identifier as taught by Junod with the sensing device as taught by Dymetman to provide a method to identify the sensing device. Junod invites such combination. Junod, col. 1, line 57 - col. 2, line 13; col. 9, lines 48 - 64.

11. Claims 33 and 118 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman et a1, and Berson et al.; or Dymetman et al, and Berson et al., in view of Cass, as applied to claims 112 above, and further in view of Kobayashi et al, USPN 5,881,352.

Claims 33 and 118. Dymetman does not teach that wherein the interface surface is printed on multiple pages, the method including the step of binding the pages.

Kobayashi et al teaches a means for binding the document in the event the document includes a plurality of pages. Kobayashi, col. 1, lines 7 - 21.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the binder of Kobayashi with the system of Dymetman Berson, or Dymetman, Berson, Such combination provides easy binding of collected sheets and covers without manual labor. Kobayashi, col. 2, lines 36 - 48.

12. Claims 37 and 122 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Kaule, USPN 6,302,989 B1.

Claims 37 and 122. Dymetman does not teach that the substrate is laminar.

Kaule teaches a laminar substrate. Kaule, col. 3, lines 27 - 45; col. 4, lines 6 - 10; and figure 1.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the laminar substrate as taught by Kaule with the method and system as taught by Dymetman to protect the tags, that is the optically variable element, on the surface.

13. Claims 47, 48, 56 - 64, 109, 132, 133, and 141 - 149 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Sekendur, USPN 5,477,012.

Claims 47, 48, 132, and 133. Dymetman does not specifically teach that the common feature is rotationally symmetric or ring shaped.

Sekendur teaches that the a feature that is rotationally symmetric so ms to be rotationally invariant and is ring-shaped. Sekendur, col. 4, lines 28 - 41; and figures 1 - 2.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the ring-shaped feature as taught by Sekendur with the method and invention as taught by Dymetman to produce compact, rotationally invariant tags.

Claims 56 and 141. Sekendur teaches that the tag elements are disposed in one or more arcuate bands around a central region of each tag. Sekendur, col. 4, lines 28 - 41; and figures 1 - 2.

Claims 57 and 142. Sekendur teaches that there are a plurality of the arcuate bands disposed concentrically with respect to each other. Sekendur col. 4, lines 28 - 41; and figures 1 - 2.

Claims 58, 59, 143, and 144. Sekendur shows a center circle that forms a small dot. The dot may have two values, black or white. Sekendur, col. 4, lines 28 - 41; and figures 1 - 2.

Claims 60 and 145. It is inherent to any of the systems and methods of Dymetman, and Sekendur that wherein when representing one of the possible values, the tag elements absorb, reflect or fluoresce electromagnetic radiation of a predetermined wavelength or range of wavelengths to a predetermined greater or lesser extent than the surface. See e.g. Dymetman, col. 11, lines 47 - 62. See specifically Sekendur, col. 4, lines 15 - 27 and 50 - 59.

Claims 61 and 146. It is inherent to any of the systems and methods of Dymetman, and Sekendur that the possible values of the tag elements are defined by different relative absorption,

reflection or fluorescence of electromagnetic radiation of a predetermined wavelength or range of wavelengths. See e.g. Dymetman, col. 11, lines 47 - 62. See specifically Sekendur, col. 4, lines 15 - 27 and 50 - 59.

Claims 62 and 147. Both Dymetman and Sekendur teach that the tags are not substantially visible to an average unaided human eye under daylight or ambient lighting conditions. Dymetman col. 11, lines 47 - 62. Sekendur, col. 4, lines 26 - 27.

Claims 63 and 148. Dymetman teaches that the tags are slightly visible to an average unaided human eye under daylight or ambient lighting conditions. Dymetman, col. 7, lines 59 - 62.

Claims 64 and 149. Dymetman teaches that the tags are visible to an average unaided human eye under daylight or ambient lighting conditions. Dymetman, col. 11, lines 63 - 65.

Claim 109. Sekendur teaches a sensing device (pen shaped optical conduit 8) includes a marking nib (writing element 9). Sekendur, col. 4, line 60 - col. 15, and figures 6 & 7.

14. Claims 53, 54, 79 - 81, and 164 - 166, 169 - 172 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dymetman in view of Berson et al. as applied to claims 1, 4, 67, or 70 above, and further in view of Bennett et al; USPN 5,051,736.

Claims 53, 54, 138, 139, 169 – 172. Dymetman does not specifically teach a perspective feature.

Bennett teaches includes perspective feature for enabling a perspective distortion of the tag being read to be ascertained. Bennett, col. 11, lines 59 - 62.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the perspective feature as taught by Bennett with the method and system as taught by Dymetman to provide a stylus that "is not rotationally nor title angle (stylus/tablet) constrained." Bennett, col. 3, lines 28 - 31.

Claims 79 and 164. Bennett teaches that, using a string of 11 bits, the number of unique TAC address is about 45 billion. Bennett, col. 10, lines 50 - 55. It would have been obvious to one of ordinary skill in the art at the time of the invention to increase the string length of Bennett to increase the number of unique TAC addresses to 1015 to provide increase resolution if needed.

Claims 80, 81, 165, 166. Bennett teaches that each TAC has a size of 250 by 250 microns which is smaller than 10 millimeters. Thus, any 10 millimeter diameter subregion of the region includes sufficient coded data to identify the region. Bennett, col. 15, lines 28 - 52.

Response to Arguments

15. Applicant's arguments with respect to claims 1 - 27, 29 - 66, 68, 69, 71 - 167, 169 - 172, and 177 - 180 have been considered but are moot in view of the new grounds of rejection.

Double Patenting

16. In view of the terminal disclaimer and the amendments filed, the double patenting warnings have been removed.

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Outwater et al. USPN 6,354,501 B1, Schwartz et al., USPN 5,450,190; Wright USPN 4,864,618; and Gundjian et al., USPN 6,106,110, each teach a printer that prints both visible and invisible information.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leland R. Jorgensen whose telephone number is 571-272-7768. The examiner can normally be reached on Monday through Friday, 10:00 am through 6:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

On <u>July 15, 2005</u>, the Central FAX Number will change to 571-273-8300. This new Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

Most facsimile-transmitted patent application related correspondence is required to be sent to the Central FAX Number. To give customers time to adjust to the new Central FAX Number, faxes sent to the old number (703-872-9306) will be routed to the new number until September 15, 2005. After September 15, 2005, the old number will no longer be in service and 571-273-8300 will be the only facsimile number recognized for "centralized delivery".

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KENT CHANG PRIMARY EXAMINER